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PATENT
K-1786

In re Application of OJANEN)
Serial No. 09/838,348)
Filed: April 19, 2001)

RESPONSE TO FINAL OFFICE ACTION OF FEBRUARY 8, 2007

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LISTING OF PENDING CLAIMS

Claims 1-14 (Cancelled).

15. (Previously Presented) A cutting tool assembly for rotatable retention within a bore of a bit holder wherein the bore includes a groove, said assembly comprising:

a cutting tool;

a retainer sleeve carried by the cutting tool, and the retainer sleeve including a radially outward projecting dimple that is received within the groove;

wherein said retainer sleeve has a cylindrical circumference and a thickness dimension;

the amount of radial projection of said dimple beyond the cylindrical surface of the retainer sleeve is between a minimum equal to about 15 percent of the thickness dimension of the retainer sleeve so as to provide sufficient holding force to rotatably retain the cutting tool within the bore during operation and a maximum equal to about 30 percent of the thickness dimension of said retainer sleeve so as to provide for a maximum force to allow the removal of the cutting tool from the bore without the necessity of excessive force.

16. (Currently Amended) A cutting tool assembly according to claim 15, wherein said retainer sleeve includes a plurality of said dimples dimple spaced relative to one another about the circumference of said retainer sleeve.

17. (Previously Presented) A cutting tool assembly according to claim 15, wherein said dimple is generally semi-spherical.

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Claims 18-28 (Cancelled).

29. (Previously Presented) A retainer for use in conjunction with a cutting tool, said retainer comprising:

a retainer sleeve carried by the cutting tool and including a radially outward projecting dimple;

wherein said retainer sleeve has a cylindrical circumference and a thickness dimension:

the amount of radial projection of said dimple beyond the cylindrical surface of the retainer sleeve is between about 15 percent and about 30 percent of the thickness dimension of said retainer sleeve.

30. (Currently Amended) A retainer according to claim 29, wherein said retainer sleeve includes a plurality of said dimples dimple equally spaced relative to one another about the circumference of said retainer sleeve.

Claim 31 (Cancelled).

32. (Previously Presented) A cutting tool assembly according to claim 15 wherein said dimple extends between about .007 – .020 inches beyond an exterior cylindrical surface of said retainer sleeve.

33. (Previously Presented) A cutting tool assembly according to claim 17 wherein said dimple has a diameter of between about .06 - .10 inches.

34. (Currently Amended) A cutting tool assembly according to claim 17 wherein said retainer sleeve has a plurality of said ~~dimples~~ dimple.

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Claims 35 (Cancelled)

36. (Previously Presented) A retainer according to claim 29 wherein said dimple extends between about .007 – .020 inches beyond an exterior cylindrical surface of said retainer sleeve.

37. (Previously Presented) A retainer according to claim 29 wherein said dimple has a diameter of between about .06 – .10 inches.

38. (Currently Amended) A retainer according to claim 29 wherein said retainer sleeve has a plurality of said dimples dimple.

39. (Previously Presented) A cutting tool assembly, said assembly comprising:

a cutting tool;

a retainer sleeve carried by the cutting tool, and including a radially outward protruding surface;

wherein said retainer sleeve has a cylindrical circumference and a thickness dimension,

the amount of radial projection of said protruding surface beyond the cylindrical surface of the retainer sleeve is between about 15 percent and about 30 percent of the thickness dimension of said retainer sleeve.

40. (Previously Presented) A retainer for use in conjunction with a cutting tool, said retainer comprising:

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a retainer sleeve carried by the cutting tool and including a radially outward protruding surface;

wherein said retainer sleeve has a cylindrical circumference and a thickness dimension;

the amount of radial projection of said protruding surface beyond the cylindrical surface of the retainer sleeve is between about 15 percent and about 30 percent of the thickness dimension of said retainer sleeve.

Claims 41-42 (Cancelled).

43. (Previously Presented) A generally cylindrical retainer for use in conjunction with a cutting tool, said retainer comprising:

a retainer sleeve carried by the cutting tool and including at least two radially outward projecting dimples;

wherein said retainer sleeve has a central longitudinal axis and a thickness dimension, and all of said at least two dimples are generally located within a common radial plane;

the amount of radial projection of each one of said at least two dimples beyond the cylindrical surface of the retainer sleeve is between about 15 percent and about 30 percent of the thickness dimension of said retainer sleeve,

wherein said retainer sleeve is constructed from steel.

44. (Previously Presented) A retainer according to claim 43 wherein said at least two dimples extend between about .007 - .020 inches beyond an exterior cylindrical surface of said retainer sleeve.

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45. (Previously Presented) A retainer according to claim 44 wherein each one of said at least two dimples has a diameter of between about .06 - .10 inches.

46. (Previously Presented) A retainer according to claim 29 wherein said retainer sleeve has an endface, and a bottom end, wherein a slit extends from said bottom end to said endface.

47. (Previously Presented) A retainer according to claim 40 wherein said retainer sleeve has an endface, and a bottom end, wherein a slit extends from said bottom end to said endface.